

RAW SEQUENCE LISTING

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Application Serial Number: 10/535,042
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PATENT APPLICATION: US/10/535,042

DATE: 03/03/2006
TIME: 14:26:46

Input Set : A:\SALK3140.APP
Output Set: N:\CRF4\03032006\J535042.raw

3 <110> APPLICANT: DOWNES, MICHAEL R.
 4 VERDICIA, MARK A.
 5 NOEL, JOSEPH P.
 6 EVANS, RONALD M.
 7 BOWMAN, LINDSEY J.
 8 BOWMAN, MARIANNE
 10 <120> TITLE OF INVENTION: STRUCTURE OF THE FARNESOID X RECEPTOR LIGAND BINDING
 11 DOMAIN AND METHODS OF USE THEREFOR
 13 <130> FILE REFERENCE: SALK3140-1
 17 <140> CURRENT APPLICATION NUMBER: 10/535,042
 16 <141> CURRENT FILING DATE: 2005-05-13
 18 <150> PRIOR APPLICATION NUMBER: PCT/US03/036548
 19 <151> PRIOR FILING DATE: 2003-11-14
 21 <150> PRIOR APPLICATION NUMBER: 60/426,665
 22 <151> PRIOR FILING DATE: 2002-11-15
 24 <150> PRIOR APPLICATION NUMBER: 60/426,668
 25 <151> PRIOR FILING DATE: 2002-11-15
 27 <160> NUMBER OF SEQ ID NOS: 6
 29 <170> SOFTWARE: PatentIn Ver. 3.3
 31 <210> SEQ ID NO: 1
 32 <211> LENGTH: 476
 33 <212> TYPE: PRT
 34 <213> ORGANISM: Homo sapiens
 36 <400> SEQUENCE: 1
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 38 1 5 10 15
 40 Asp Glu Phe Ser Phe Ser Glu Asn Leu Phe Gly Val Leu Thr Glu Gln
 41 20 25 30
 43 Val Ala Gly Pro Leu Gly Gln Asn Leu Glu Val Glu Pro Tyr Ser Gln
 44 35 40 45
 46 Tyr Ser Asn Val Gln Phe Pro Gln Val Gln Pro Gln Ile Ser Ser Ser
 47 50 55 60
 49 Ser Tyr Tyr Ser Asn Leu Gly Phe Tyr Pro Gln Gln Pro Glu Glu Trp
 50 65 70 75 80
 52 Tyr Ser Pro Gly Ile Tyr Glu Leu Arg Arg Met Pro Ala Glu Thr Leu
 53 85 90 95
 55 Tyr Gln Gly Glu Thr Glu Val Ala Glu Met Pro Val Thr Lys Lys Pro
 56 100 105 110
 58 Arg Met Gly Ala Ser Ala Gly Arg Ile Lys Gly Asp Glu Leu Cys Val
 59 115 120 125
 61 Val Cys Gly Asp Arg Ala Ser Gly Tyr His Tyr Asn Ala Leu Thr Cys
 62 130 135 140
 64 Glu Gly Cys Lys Gly Phe Phe Arg Arg Ser Ile Thr Lys Asn Ala Val

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65 145 150 155 160
 67 Tyr Lys Cys Lys Asn Gly Gly Asn Cys Val Met Asp Met Tyr Met Arg
 68 165 170 175
 70 Arg Lys Cys Gln Glu Cys Arg Leu Arg Lys Cys Lys Glu Met Gly Met
 71 180 185 190
 73 Leu Ala Glu Cys Met Tyr Thr Gly Leu Leu Thr Glu Ile Gln Cys Lys
 74 195 200 205
 76 Ser Lys Arg Leu Arg Lys Asn Val Lys Gln His Ala Asp Gln Thr Val
 77 210 215 220
 79 Asn Glu Asp Ser Glu Gly Arg Asp Leu Arg Gln Val Thr Ser Thr Thr
 80 225 230 235 240
 82 Lys Ser Cys Arg Glu Lys Thr Glu Leu Thr Pro Asp Gln Gln Thr Leu
 83 245 250 255
 85 Leu His Phe Ile Met Asp Ser Tyr Asn Lys Gln Arg Met Pro Gln Glu
 86 260 265 270
 88 Ile Thr Asn Lys Ile Leu Lys Glu Glu Phe Ser Ala Glu Glu Asn Phe
 89 275 280 285
 91 Leu Ile Leu Thr Glu Met Ala Thr Asn His Val Gln Val Leu Val Glu
 92 290 295 300
 94 Phe Thr Lys Lys Leu Pro Gly Phe Gln Thr Leu Asp His Glu Asp Gln
 95 305 310 315 320
 97 Ile Ala Leu Leu Lys Gly Ser Ala Val Glu Ala Met Phe Leu Arg Ser
 98 325 330 335
 100 Ala Glu Ile Phe Asn Lys Leu Pro Ser Gly His Ser Asp Leu Leu
 101 340 345 350
 103 Glu Glu Arg Ile Arg Asn Ser Gly Ile Ser Asp Glu Tyr Ile Thr Pro
 104 355 360 365
 106 Met Phe Ser Phe Tyr Lys Ser Ile Gly Glu Leu Lys Met Thr Gln Glu
 107 370 375 380
 109 Glu Tyr Ala Leu Leu Thr Ala Ile Val Ile Leu Ser Pro Asp Arg Gln
 110 385 390 395 400
 112 Tyr Ile Lys Asp Arg Glu Ala Val Glu Lys Leu Gln Glu Pro Leu Leu
 113 405 410 415
 115 Asp Val Leu Gln Lys Leu Cys Lys Ile His Gln Pro Glu Asn Pro Gln
 116 420 425 430
 118 His Phe Ala Cys Leu Leu Gly Arg Leu Thr Glu Leu Arg Thr Phe Asn
 119 435 440 445
 121 His His His Ala Glu Met Leu Met Ser Trp Arg Val Asn Asp His Lys
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 125 465 470 475
 128 <210> SEQ ID NO: 2
 129 <211> LENGTH: 472
 130 <212> TYPE: PRT
 131 <213> ORGANISM: Homo sapiens
 133 <400> SEQUENCE: 2
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 135 1 5 10 15
 137 Asp Glu Phe Ser Phe Ser Glu Asn Leu Phe Gly Val Leu Thr Glu Gln

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138	20	25	30	
140	Val Ala Gly Pro Leu Gly Gln Asn Leu Glu Val Pro Tyr Ser Gln			
141	35	40	45	
143	Tyr Ser Asn Val Gln Phe Pro Gln Val Gln Pro Gln Ile Ser Ser Ser			
144	50	55	60	
146	Ser Tyr Tyr Ser Asn Leu Gly Phe Tyr Pro Gln Gln Pro Glu Glu Trp			
147	65	70	75	80
149	Tyr Ser Pro Gly Ile Tyr Glu Leu Arg Arg Met Pro Ala Glu Thr Leu			
150	85	90	95	
152	Tyr Gln Gly Glu Thr Glu Val Ala Glu Met Pro Val Thr Lys Lys Pro			
153	100	105	110	
155	Arg Met Gly Ala Ser Ala Gly Arg Ile Lys Gly Asp Glu Leu Cys Val			
156	115	120	125	
158	Val Cys Gly Asp Arg Ala Ser Gly Tyr His Tyr Asn Ala Leu Thr Cys			
159	130	135	140	
161	Glu Gly Cys Lys Gly Phe Phe Arg Arg Ser Ile Thr Lys Asn Ala Val			
162	145	150	155	160
164	Tyr Lys Cys Lys Asn Gly Gly Asn Cys Val Met Asp Met Tyr Met Arg			
165	165	170	175	
167	Arg Lys Cys Gln Glu Cys Arg Leu Arg Lys Cys Lys Glu Met Gly Met			
168	180	185	190	
170	Leu Ala Glu Cys Leu Leu Thr Glu Ile Gln Cys Lys Ser Lys Arg Leu			
171	195	200	205	
173	Arg Lys Asn Val Lys Gln His Ala Asp Gln Thr Val Asn Glu Asp Ser			
174	210	215	220	
176	Glu Gly Arg Asp Leu Arg Gln Val Thr Ser Thr Thr Lys Ser Cys Arg			
177	225	230	235	240
179	Glu Lys Thr Glu Leu Thr Pro Asp Gln Gln Thr Leu Leu His Phe Ile			
180	245	250	255	
182	Met Asp Ser Tyr Asn Lys Gln Arg Met Pro Gln Glu Ile Thr Asn Lys			
183	260	265	270	
185	Ile Leu Lys Glu Glu Phe Ser Ala Glu Glu Asn Phe Leu Ile Leu Thr			
186	275	280	285	
188	Glu Met Ala Thr Asn His Val Gln Val Leu Val Glu Phe Thr Lys Lys			
189	290	295	300	
191	Leu Pro Gly Phe Gln Thr Leu Asp His Glu Asp Gln Ile Ala Leu Leu			
192	305	310	315	320
194	Lys Gly Ser Ala Val Glu Ala Met Phe Leu Arg Ser Ala Glu Ile Phe			
195	325	330	335	
197	Asn Lys Lys Leu Pro Ser Gly His Ser Asp Leu Leu Glu Glu Arg Ile			
198	340	345	350	
200	Arg Asn Ser Gly Ile Ser Asp Glu Tyr Ile Thr Pro Met Phe Ser Phe			
201	355	360	365	
203	Tyr Lys Ser Ile Gly Glu Leu Lys Met Thr Gln Glu Glu Tyr Ala Leu			
204	370	375	380	
206	Leu Thr Ala Ile Val Ile Leu Ser Pro Asp Arg Gln Tyr Ile Lys Asp			
207	385	390	395	400
209	Arg Glu Ala Val Glu Lys Leu Gln Glu Pro Leu Leu Asp Val Leu Gln			
210	405	410	415	

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212 Lys Leu Cys Lys Ile His Gln Pro Glu Asn Pro Gln His Phe Ala Cys
213 420 425 430
215 Leu Leu Gly Arg Leu Thr Glu Leu Arg Thr Phe Asn His His His Ala
216 435 440 445
218 Glu Met Leu Met Ser Trp Arg Val Asn Asp His Lys Phe Thr Pro Leu
219 450 455 460
221 Leu Cys Glu Ile Trp Asp Val Gln
222 465 470
225 <210> SEQ ID NO: 3
226 <211> LENGTH: 229
227 <212> TYPE: PRT
228 <213> ORGANISM: Homo sapiens
230 <400> SEQUENCE: 3
231 Glu Leu Thr Pro Asp Gln Gln Thr Leu Leu His Phe Ile Met Asp Ser
232 1 5 10 15
234 Tyr Asn Lys Gln Arg Met Pro Gln Glu Ile Thr Asn Lys Ile Leu Lys
235 20 25 30
237 Glu Glu Phe Ser Ala Glu Glu Asn Phe Leu Ile Leu Thr Glu Met Ala
238 35 40 45
240 Thr Asn His Val Gln Val Leu Val Glu Phe Thr Lys Lys Leu Pro Gly
241 50 55 60
243 Phe Gln Thr Leu Asp His Glu Asp Gln Ile Ala Leu Leu Lys Gly Ser
244 65 70 75 80
246 Ala Val Glu Ala Met Phe Leu Arg Ser Ala Glu Ile Phe Asn Lys Lys
247 85 90 95
249 Leu Pro Ser Gly His Ser Asp Leu Leu Glu Glu Arg Ile Arg Asn Ser
250 100 105 110
252 Gly Ile Ser Asp Glu Tyr Ile Thr Pro Met Phe Ser Phe Tyr Lys Ser
253 115 120 125
255 Ile Gly Glu Leu Lys Met Thr Gln Glu Glu Tyr Ala Leu Leu Thr Ala
256 130 135 140
258 Ile Val Ile Leu Ser Pro Asp Arg Gln Tyr Ile Lys Asp Arg Glu Ala
259 145 150 155 160
261 Val Glu Lys Leu Gln Glu Pro Leu Leu Asp Val Leu Gln Lys Leu Cys
262 165 170 175
264 Lys Ile His Gln Pro Glu Asn Pro Gln His Phe Ala Cys Leu Leu Gly
265 180 185 190
267 Arg Leu Thr Glu Leu Arg Thr Phe Asn His His His Ala Glu Met Leu
268 195 200 205
270 Met Ser Trp Arg Val Asn Asp His Lys Phe Thr Pro Leu Leu Cys Glu
271 210 215 220
273 Ile Trp Asp Val Gln
274 225
277 <210> SEQ ID NO: 4
278 <211> LENGTH: 305
279 <212> TYPE: PRT
280 <213> ORGANISM: Homo sapiens
282 <400> SEQUENCE: 4
283 Lys Leu Ser Glu Glu Gln Gln Arg Ile Ile Ala Ile Leu Leu Asp Ala

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284 1 5 10 15
 286 His His Lys Thr Tyr Asp Pro Thr Tyr Ser Asp Phe Cys Gln Phe Arg
 287 20 25 30
 289 Pro Pro Val Arg Val Asn Asp Gly Gly Gly Ser His Pro Ser Arg Pro
 290 35 40 45
 292 Asn Ser Arg His Thr Pro Ser Phe Ser Gly Asp Ser Ser Ser Ser Cys
 293 50 55 60
 295 Ser Asp His Cys Ile Thr Ser Ser Asp Met Met Asp Ser Ser Ser Phe
 296 65 70 75 80
 298 Ser Asn Leu Asp Leu Ser Glu Glu Asp Ser Asp Asp Pro Ser Val Thr
 299 85 90 95
 301 Leu Glu Leu Ser Gln Leu Ser Met Leu Pro His Leu Ala Asp Leu Val
 302 100 105 110
 304 Ser Tyr Ser Ile Gln Lys Val Ile Gly Phe Ala Lys Met Ile Pro Gly
 305 115 120 125
 307 Phe Arg Asp Leu Thr Ser Glu Asp Gln Ile Val Leu Leu Lys Ser Ser
 308 130 135 140
 310 Ala Ile Glu Val Ile Met Leu Arg Ser Asn Glu Ser Phe Thr Met Asp
 311 145 150 155 160
 313 Asp Met Ser "Tri" Cys Gly Asn Gln Asp Tyr Lys Tyr Arg Val Ser
 314 165 170 175
 316 Asp Val Thr Lys Ala Gly His Ser Leu Glu Leu Ile Glu Pro Leu Ile
 317 180 185 190
 319 Lys Phe Gln Val Gly Leu Lys Lys Leu Asn Leu His Glu Glu Glu His
 320 195 200 205
 322 Val Leu Leu Met Ala Ile Cys Ile Val Ser Pro Asp Arg Pro Gly Val
 323 210 215 220
 325 Gln Asp Ala Ala Leu Ile Glu Ala Ile Gln Asp Arg Leu Ser Asn Thr
 326 225 230 235 240
 328 Leu Gln Thr Tyr Ile Arg Cys Arg His Pro Pro Pro Gly Ser His Leu
 329 245 250 255
 331 Leu Tyr Ala Lys Met Ile Gln Lys Leu Ala Asp Leu Arg Ser Leu Asn
 332 260 265 270
 334 Glu Glu His Ser Lys Gln Tyr Arg Cys Leu Ser Phe Gln Pro Glu Cys
 335 275 280 285
 337 Ser Met Lys Leu Thr Pro Leu Val Leu Glu Val Phe Gly Asn Glu Ile
 338 290 295 300
 340 Ser
 341 305
 344 <210> SEQ ID NO: 5
 345 <211> LENGTH: 293
 346 <212> TYPE: PRT
 347 <213> ORGANISM: Homo sapiens
 349 <400> SEQUENCE: 5
 350 Gly Leu Thr Glu Glu Gln Arg Met Met Ile Arg Glu Leu Met Asp Ala
 351 1 5 10 15
 353 Gln Met Lys Thr Phe Asp Thr Thr Phe Ser His Phe Lys Asn Phe Arg
 354 20 25 30
 356 Leu Pro Gly Val Leu Ser Ser Gly Cys Glu Leu Pro Glu Ser Leu Gln

VERIFICATION SUMMARY

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